



Attorney's Docket No. 6513-DIV

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent application

In re application of: David C. Dunand

Group Art Unit: 1742

Serial No.: 10/680,639

Filed: October 7, 2003

For: SUPERCONDUCTIG Mg-MgB2 AND RELATED METAL COMPOSITES

AND METHODS OF PREPARATION

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT WITHIN THREE MONTHS OF FILING OR BEFORE MAILING OF FIRST OFFICE ACTION (37 CFR 1.97(b))

NOTE: "An information disclosure statement shall be considered by the Office if filed: (1) within three months of the filing date of a national application; (2) within three months of the date of entry of the national stage as set forth in § 1.491 in an international application; or (3) before the mailing date of a first Office action on the merits, whichever event occurs last." 37 CFR 1.97(b).

NOTE: The "filing date of a national application" under 37 CFR 1.97(b) has two possible meanings. Where the filing is a direct one to the United States Patent & Trademark Office, the filing is defined in 37 CFR 1.53(b) as "the date on which: (1) A specification containing a description pursuant to § 1.71 and at least one claim pursuant to § 1.75; and (2) any drawing required by § 1.81(a), are filed in the Patent and Trademark Office in the name of the actual inventor or inventors as required by § 1.41." 37 CFR 1.97(b)(1). On the other hand, an international application that enters the national stage occurs when the applicant has filed the documents and fees required by 35 U.S.C. § 371(c) within the periods set forth in § 1.494 or § 1.495. 35 U.S.C. § 371(c) requires the filing of the following: (1) the national fee; (2) a copy of the international application, unless already sent by the International Bureau, and an English translation if filed in another language; (3) amendments under PCT Article 19, with a translation into English if made in another language: (4) an oath or declaration; and (5) a translation into English of any annexes to the International preliminary examination report, if such annexes were made in another language. 37 CFR 1.97(b)(2).

CERTIFICATE OF MAILING/TRANSMISSION (37 CFR 1.8)

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Signature

Antonia M. Holland

(type or print name of person certifying)

Date: May 12, 2004

IDENTIFICATION OF TIME OF FILING THE ACCOMPANYING INFORMATION DISCLOSURE STATEMENT

The information disclosure statement submitted herewith is being filed within three months of the filing date of the application or date of entry into the national stage of an international application or before the mailing date of a first Office action on the merits, whichever event occurs last. 37 CFR 1.97(b).

- NOTE: "No certification or fee is due when the filing is made within the above time period. It is advisable to ensure that no Office action has been mailed if the disclosure statement is delayed until after three months from filing.
- NOTE: "An information disclosure statement will be considered to have been filed on the day it was received in the Office, or on an earlier date of a mailing if accompanied by a properly executed certificate of mailing under 37 CFR 1.8, or Express Mail certificate under 37 CFR 1.10. An Office action is mailed on the date indicated in the Office action." Notice of April 20, 1992 (1138 O.G. 37-41, 39).
- NOTE: "The term 'national application' includes continuing applications (continuations, divisions, continuations-inpart) so three months will be measured from the actual filing date of an application as opposed [sic] to the effective date of a continuing application." Notice of April 20, 1992 (1138 O.G. 37-41, 39).
- NOTE: "An action on the merits means an action which treats the patentability of the claims in an application, as opposed to only formal or procedural requirements. An action on the merits would, for example, contain a rejection or indication of allowability of a claim or claims rather than just a restriction requirement (37 CFR 1.142) or just a requirement for additional fees to have a claim considered (37 CFR 1.16(d)). Thus, if an application was filed on Jan. 1 and the first Office action on the merits was not mailed until six months later on July 1, the examiner would be required to consider any proper information disclosure statement filed prior to July 1." Notice of April 20, 1992 (1138 O.G. 37-41, 39).

WARNING: "A petition for suspension of action to allow applicant time to submit an information disclosure statement will be denied as failing to present good and sufficient reasons, since 37 CFR 1.97 provides adequate recourse for the timely submission of prior art for consideration by the examiner." Notice of July 6, 1992 (1141 O.G. 63).

Dated: May 12, 2004 Reg. No. 53,840

Tel. No.: (414) 298-8285

SIGNATURE OF ATTORNEY

Antonia M. Holland

Reinhart Boerner Van Deuren, s.c.

(P.O. Address)

1000 North Water Street, Suite 2100 Attn: Linda Gabriel, Docket Clerk

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Milwaukee, WI 53202

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y	Application Number	10/680,639
TRANSMITTAL	Filing Date	October 7, 2003
FORM	First Named Inventor	David C. Dunand
(to be used for all correspondence after initial filing)	Art Unit	1742
	Examiner Name	Ngoclan Thi Mai
		

Total Number of Page	5 111 11115 3001111551011	Attorney Docket Number	0313-DIV
		ENCLOSURES (check all that apply)	
Fee Transmittal F	form	Drawing(s)	After Allowance Communication to Group
☐ Fee Attached	ı	Licensing-related Papers	Appeal Communication to Board of Appeals and Interferences
Amendment / Rep	ply	Petition	Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
After Final		Petition to Convert to a Provisional Application	Proprietary Information
Affidavits/dec	laration(s)	Power of Attorney, Revocation Change of Correspondence Address	Status Letter
Extension of Time	e Request	Terminal Disclaimer	Other Enclosure(s) (please identify below):
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Certified Copy of Document(s)	Priority	Remarks	
Response to Miss Incomplete Applic			
Response to Parts under 3 1.52 or 1.53			
	SIGNA	TURE OF APPLICANT, ATTORNEY, O	RAGENT
Firm or Individual name	Antonia M. Holland		
Signature	antona	M. Clouand	
Date	May 14, 2004		
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		is being deposited with the United States Po- Commissioner for Patents, P.O. Box 1450,	

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PATENT

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Reinhart Boerner Van Deuren s.c.

Dated: May 12, 2004

By: antonia M. of buland

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	David C. Dunand)
Serial No.:	10/680,639)
Filed:	October 7, 2003) Docket No. 6513-DIV
For:	SUPERCONDUCTING Mg-MgB2 AND RELATED METAL COMPOSITES AND METHODS OF PREPARATION)))

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

On behalf of Applicant and pursuant to 37 C.F.R. § 1.97-.98, patents and publications that may be relevant are hereby presented for consideration. Pursuant to MPEP § 609I(2), copies of such patents and publications are not provided, as such copies were provided in the parent application no. 10/160,805 filed May 31, 2002.

Respectfully submitted,

Antonia M. Holland

Dated: May 12, 2004

Registration No.: 53,840

Telephone No.: (414) 298-8285 Reinhart Boerner Van Deuren s.c.

Attn: Linda Gabriel-Kasulke, Docket Clerk

1000 North Water Street, Suite 1800

Milwaukee, WI 53203-3186

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

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Application Number	10/680,639	
Filing Date	October 7, 2003	
First Named Inventor	David C. Dunand	
Art Unit	1742	
Examiner Name	Ngoclan Thi Mai	
Attorney Docket Number	6513-DIV	

			U.S. PATENT I	DOCUMENTS		
Examiner	Cite	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant	
Initials * No.1	No.1	Number - Kind Code ² (if known)		Cited botoment	Passages or Relevant Figures Appear	
		4,411,712	10-25-1983	Marancik		
		3,894,850	07-15-1975	Kovalchuk et al.		
		4,855,263	08-08-1989	Kawasaki et al.		
		RE28,983	09-28-1976	Sindzingre et al.		
		5,511,603	04-30-1996	Brown et al.		
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		FOREIGN PA	TENT DOCU	MENTS		
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Examiner Initials*	Cite No. ¹	Country Code ³ - Number ⁴ - Kind Code ⁵ (<i>if known</i>)	Publication Date MM-DD-YYYY		Applicant of Cited Passages or Relevant	
		WO 02/064859 A2	08-22-2002	Finnemore et al.		
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Examiner Signature	Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449B/PTO Complete if Known Application Number 10/680,639 INFORMATION DISCLOSURE Filing Date October 7, 2003 STATEMENT BY APPLICANT First Named Inventor David C. Dunand Art Unit 1742 (Use as many sheets as necessary) Examiner Name Ngoclan Thi Mai 4 of Attorney Docket Number 6513-DIV Sheet

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		ZHU, Y. et al., "Microstructure and Structural Defects in MgB2 Superconductor," <i>Physica C: Superconductivity and Its Applications</i> , August 2001, 356(4), p. 239-53 (Abstract only).	
		GIUNCHI, GIOVANNI, "High Density MgB ₂ Obtained by Reactive Liquid Mg Infiltration," Los Alamos National Laboratory, Preprint Archive, Condensed Matter, 1-8, arXiv:cond-mat/0208040, 2002.	
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		TACHIKAWA, ET AL. "Effects of metal powder addition on the critical current in MgB ₂ tapes", <i>Physica C</i> , 2002, p. 108-112, Elsevier Science B.V.	

Examiner	Date	
Signature	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance

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Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449B/PTO Complete if Known Application Number 10/680,639 INFORMATION DISCLOSURE Filing Date October 7, 2003 STATEMENT BY APPLICANT First Named Inventor David C. Dunand Art Unit 1742 (Use as many sheets as necessary) Examiner Name Ngoclan Thi Mai of 4 6513-DIV Attorney Docket Number Sheet

		NON PATENT LITERATURE DOCUMENTS	,
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
		JIN, ET AL. "High critical currents in iron-clad superconducting MgB ₂ wires", <i>Nature</i> , May 31, 2001, p. 563-565, Macmillan Magazines Ltd.	
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		MARTINEZ, ET AL. "Study of Ag and Cu/ MgB₂ powder-in-tube composite wires fabricated by in situ reaction at low temperatures", Superconductor Science and Technologyl, 2002, p. 1043-1047, IOP Publishing Ltd.	
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		WU, ET AL. "Superconducting MgB ₂ Nanowires", <i>Advanced Materials</i> , October 2, 2001, Vol. 13, No. 19, p. 1487-1489, WILEY-VCH Verlag GmbH.	
		CUNNINGHAM, ET AL. "Synthesis and processing of MgB ₂ powders and wires", <i>Physica C</i> , 2001, p. 5-10, Elsevier Science B.V.	
		LOUIS, ET AL. "Pressure infiltration of packed ceramic particulates by liquid metals", <i>Acta Materialia</i> , December 10, 1999, p. 4461-4479.	

Examiner	[Date	
Signature		Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance

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		NON PATENT LITERATURE DOCUMENTS	
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		UNKNOWN. "Transactions of the Indian", Institute of Metals, December 1997, p. 665-674.	
		GLOWACKI, ET AL. "Superconductivity of powder-in-tube MgB2 wires", Superconductor Science & Technology, April 2001, p. 193-199.	
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		FUJII, ET AL. "Influence of MgB2 powder quality on the transport properties of Cu-sheathed MgB2 tapes", <i>Physica C</i> , 2001, p. 237-242, Elsevier Science B.V.	
		ZHOU, ET AL. "Single- and multi-filamentary Fe-sheathed MgB₂ wires", <i>Physica C</i> , 2002, p. 349-354, Elsevier Science B.V.	
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		MICHAUD, Liquid-State Processing, Thesis, Department of Materials Science and Engineering, Massachusetts Institute of Technology, Cambridge, MA, 1991, Pages 3-22.	
		MORTENSEN, ET AL., Solidification processing of metal matrix, International Materials Reviews, Volume 37, No. 3, 1992, Pages 101-128.	

Constitution	Examiner Signature		sidered	
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